



Consultant Design			Initial
Act	Info	Date	Attach
		5/27/05	
		Routing	
✓		Bureau Chief	TS
		Consultant Plans Eng	
		Design Supervisor	
		CTEP Engineer	
		✓ All Engineering	
		STAFF	
		✓ All Design	
		CONSULTANTS	
		FILE	

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Therefore, it may not be necessary to develop all of this data for minimum sized culverts. As the risks and capital costs become greater, the level of hydraulic analysis will increase. This approach is no different than what we do now and is consistent with our FHWA Federal-Aid Policy Guide for Hydraulic Design.

Through the project nomination, scoping and design development process items of concern will be documented and the amount of hydraulic survey and subsequently the degree of hydraulic design required will be largely determined. Further evaluation of site-specific constraints resulting from field reviews, talking to landowners, MDT Maintenance and County representatives, in addition to evaluation of resource concerns in consultation with MDT Environmental Services will help guide the development of the design process.

It is not possible to determine a definitive list of issues and design requirements ahead of time as each project and at times each crossing will pose slightly different problems and design challenges.

As previously stated the majority of this data is already being developed and needs to be appropriately documented in Hydraulic Reports using the proper application of engineering principles and practice along with sound engineering judgment.

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Distribution:

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